FUJITSU SIEMENS COMPUTERS

# Release Notice PCMX (LINUX-S390) V6.0A

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## 1 General

The file contains important information which is not noted in the manuals for using PCMX V6.0 in the LINUX operating system.

The release level is that of: September 2007.


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### 1.1 Documentation

You receive the following manuals when you order the documentation package:

Betrieb und Administration CMX V6.0, German/deutsch Benutzerhandbuch
Order No./Best.Nr.: U20871-J-Z145-2

Anwendungen programmieren CMX V6.0, German/deutsch Programmierhandbuch
Order No./Best.Nr.: U41136-J-Z145-3

Programming Applications CMX V6.0, English/englisch Programmer Reference Guide
Order No./Best.Nr.: U41136-J-Z145-3-76

The documentation is available in the form of online manuals at http://manuals.fujitsu-siemens.com or can be ordered in the form of printed manuals for an additional payment at http://FSC-manualshop.com.

# 2 Notes on product use

## 2.1 Software/hardware configuration

### 2.1.1 Operating system

The following operating system versions are required for using PCMX(LINUX-S390) V6.0:

| LINUX Distributor | Version |
|---|---|
| LINUX /390 | VM2000-LINUX 7.2 (SLES9) |

*) or compatible Linux distributions

## 2.2 Resource requirements

PCMX V6.0A requires the following hard disk space:

| Package | /etc | /usr | /opt |
|---|---|---|---|
| PCMX (/390) | ~4 KB | ~0,7 MB | ~1,5 MB |

Main memory requirement of the ICMX(L) library:

| Text segment | Initialized data/processes | Not initialized (bss) data/processes |
|---|---|---|
| ~400 KB | ~30 KB | ~4 KB |

The ICMX library is a "shared object". The text segment therefore is present only once in the main memory.

## 2.3 Product installation/configuration

### 2.3.1 Installing PCMX(LINUX)

PCMX(LINUX) is shipped as an rpm package and must be installed with the rpm (Red Hat package manager) command.

The description contains the <package> for the PCMX(LINUX) package that you received. If you renamed the package, you must use the new file name.

For an installation or update, root rights are required.

New installation:

```
rpm -i <package name>
```

Update from an earlier version:

Please uninstall the old package first and than install the new package. (The parameter -U is supported for update from PCMX 6.0A40 or higher)

### 2.3.2 Uninstalling PCMX(LINUX)

Determine the name of the installed PCMX(LINUX) package:

```
rpm -qa | grep CMX
```

The command returns the name of the installed CMX(LINUX) package, for example CMX-6.0A30-1.

Uninstalling CMX(LINUX):

```
rpm -e <package name>
```

## 2.4 Notes on product operation

### 2.4.1 Limit values

| | |
|---|---|
| Max. number of ICMX applications per processes | 1,024 |
| Max. number of TVs (TCEPs) per ICMX application | 1,024 |
| Max. number of RFC1006 connections per ICMX application | 1,024 |

## 2.5 Obsolete and discontinued functions

---

## 2.6 Incompatibilities

### 2.6.1 Source programs

The CMX library is available as a shared object. This means that your programs will automatically use the new CMX library without having to be relinked after a new CMX version has been installed.

## 2.7 Restrictions

The current version supports for incoming connection establishment using IPv4 addresses only

the “HOST <hostname>” format.

## 2.8 Additions to the manual

COMM-CD-PCMX_09.2007\Documents\manual_changes_en.txt

## 2.9 Miscellaneous information

### 2.9.1 Compiling and linking PCMX applications

The README file under /opt/lib/cmx/demo/cmxDe contains information about compiling and linking PCMX applications.

### 2.9.2 Information about the installed PCMX(LINUX)

- Determining the name of the installed PCMX(LINUX) package:
  rpm -qa | grep CMX

- Verifying the installed PCMX(LINUX) package:
  rpm -V <package name>

- Getting information about the installed PCMX(LINUX) package:
  rpm -qi <package name>

### 2.9.3 New functions

IPv6:
The extended addressing over the IPv6 stack is supported.

Multithreaded functions:
The CMX-lib is thread save since the version 6.0. The calls to the CMX-lib can be made from different, maybe competing threads. For it is necessary to use the CMX-functions of the library libpthreadcmx.so when creating applications.

# 3 Changes to previous PCMX Version

## 3.1 Connection to the own Process

Connections can be set up to the own process.

## 3.2 TNS-Tools tnsxdel and tnsxnames

This two CMX tools are now deployed with by PCMX. They are documented in CMX manuals.

## 3.3 Ipv6: Link-local addresses

PCMX supports link-local addresses in the IPv6-stack.

## 3.4 The Package are renamed to PCMX

The old name was CMX (and CMX-J).

## 3.5 Prepared for Update Installation

Due to the renaming of the Package the Update now is only possible from PCMX 6.0A40 on. Uninstall older packages named CMX or CMX-J before installing PCMX.

## 3.6 tnsxd/cmxredd with 32/64-Bit Processes

If on a system 32-Bit and 64-Bit libraries are installed, the daemons must support both application types. Only on LINUX the length and alignment of the used data types differed in 64-bit and 32-bit that disturbed the communication between the PCMX application and the daemons.

# 4 Evaluation Test Eval_PCMX_on_Linux (/opt/bin)

The test program if PCMX is operable on this linux distribution.

Output:
Log file pcmx_prot

```
OK:                return value = 0
                notice:PCMX is operable on this linux distribution.
not_OK:                 return  value ne 0
                notice: Evaluation of PCMX on this linux distribution
                failed !
```

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